

ABSTRACT

A method of geophysical exploration of a subsurface region of interest which utilizes an unsupervised learning network to organize seismic data representing a subsurface region of interest. A portion of the organized seismic data is correlated with lithological data from a well bore located in said subsurface region of interest and said correlation is applied to said seismic data to estimate lithology in said subsurface region of interest.

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